

Special Issue

Damage Mechanics of Metallic Parts in Bridge Engineering

Message from the Guest Editor

Many properly designed and constructed bridge structures are damaged during their operation. Cracks are particularly dangerous, mainly due to their sudden and uncontrolled development, and lead to failures in many situations. Concerning metallic bridges, damage to their individual parts and whole structures, as well as a significant reduction of the strength of the material from which historic buildings are made, may result in a reduction of the load-carrying capacity. In such situations, there is a reasonable suspicion that the current load capacity may not be sufficient for the safe use of these facilities. This Special Issue covers new developments in the field of damage mechanics of materials and structures in bridge engineering. Topics include theoretical and practical studies focused on the damage mechanics-based assessment of parts, members, and whole structures of metallic bridges. Original research papers, reviews, and short communications reporting the results of experimental, theoretical, and/or computational work on any aspect of research in the subject scope are welcome. We look forward to your contributions.

Guest Editor

Prof. Dr. Paweł Kossakowski

Faculty of Civil Engineering and Architecture, Department of Strength of Materials and Structural Analysis, Kielce University of Technology, Al. Tysiąclecia Państwa Polskiego 7, 25-314 Kielce, Poland

Deadline for manuscript submissions

closed (30 December 2020)



Metals

an Open Access Journal
by MDPI

Impact Factor 2.6
CiteScore 4.9



mdpi.com/si/44666

Metals

MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
metals@mdpi.com

[mdpi.com/journal/
metals](https://mdpi.com/journal/metals)





Metals

an Open Access Journal
by MDPI

Impact Factor 2.6
CiteScore 4.9



[mdpi.com/journal/
metals](https://mdpi.com/journal/metals)



About the Journal

Message from the Editorial Board

Metallic materials play a vital role in the economic life of modern societies; contributions are sought on fresh developments that enhance our understanding of the fundamental aspects related to the relationships between processing, properties and microstructure – disciplines in the metallurgical field ranging from processing, mechanical behavior, phase transitions and microstructural evolution, nanostructures, as well as unique metallic properties – inspire general and scholarly interest among the scientific community.

Editors-in-Chief

Prof. Dr. Hugo F. Lopez

Department of Materials Science and Engineering, College of Engineering & Applied Science, University of Wisconsin-Milwaukee, 3200 N. Cramer Street, Milwaukee, WI 53211, USA

Prof. Dr. Yong Zhang

Beijing Advanced Innovation Center of Materials Genome Engineering, State Key Laboratory for Advanced Metals and Materials, University of Science and Technology Beijing, 30 Xueyuan Road, Beijing 100083, China

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), Inspec, CAPIus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Metallurgy and Metallurgical Engineering) /
CiteScore - Q1 (Metals and Alloys)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.5 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2024).